

REGISTER
OF THE
OFFICERS AND CADETS

OF THE
VIRGINIA MILITARY INSTITUTE,
LEXINGTON, VA.

JULY, 1855.

RICHMOND:
MACFARLANE & FERGUSON.
1855.

VIRGINIA MILITARY INSTITUTE.
MATHEMATICAL SERIES,
By Col. FRANCIS H. SMITH.

SUPERINTENDENT OF THE VIRGINIA MILITARY INSTITUTE.

PUBLISHED BY

THOMAS, COWPERTHWAIT & CO.,

No 253 Market Street, Philadelphia,

And for Sale at the Principal Book Stores of the United States.

INTRODUCTION TO SMITH AND DUKE'S ARITHMETIC,

By FRANCIS H. SMITH, A. M.

AMERICAN STATISTICAL ARITHMETIC,

DESIGNED FOR ACADEMIES AND SCHOOLS,

By FRANCIS H. SMITH, A. M.,

Superintendent and Professor of Mathematics in the Virginia Military Institute; late Professor of Mathematics in Hampden Sidney College, and formerly Assistant Professor in the United States Military Academy, West Point, and R. T. W. DUKE, Assistant Professor of Mathematics in the Virginia Military Institute. Third Edition.

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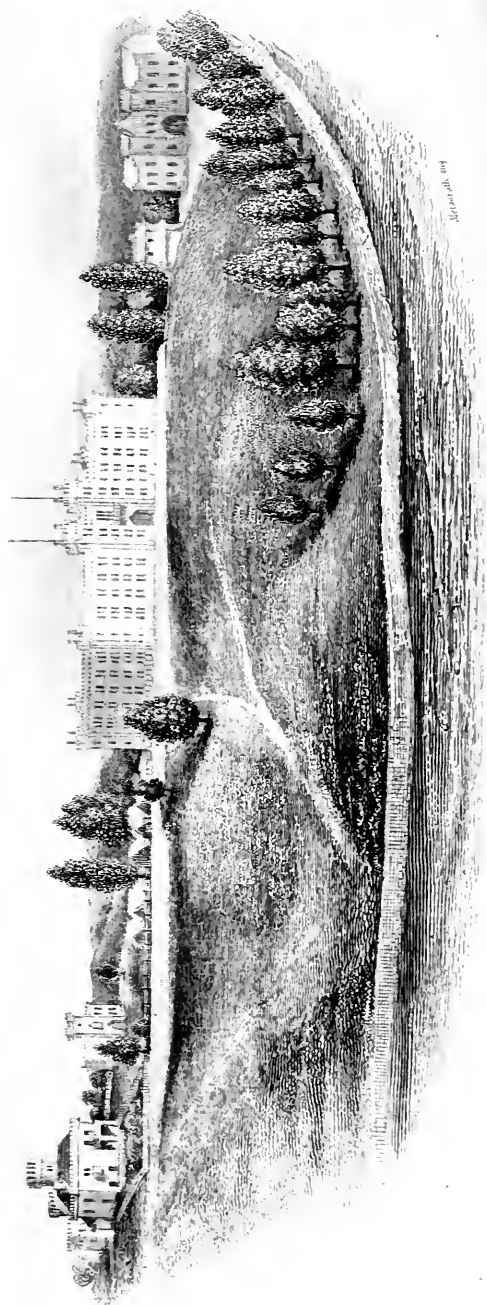
SMITH'S ALGEBRA.

An Elementary Treatise on Algebra, prepared for the use of the Cadets of the Virginia Military Institute, and adapted to the present State of Mathematical instruction in the Schools, Academies, and Colleges of the United States. By FRANCIS H. SMITH, A. M.

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An Elementary Treatise on Analytical Geometry. Translated from the French of J. B. BIOT. By FRANCIS H. SMITH, A. M. Revised Edition.





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REMARKS.

THE VIRGINIA MILITARY INSTITUTE was established, and is supported by the State of Virginia. An arsenal, containing 30,000 stand of arms, is located here, which was formerly guarded by a company of enlisted soldiers, at an annual expense of about \$6,000. In 1839, this appropriation was transferred to the support of a company of cadets, who, in addition to their duties as a guard, should also be placed under a course of instruction, upon the basis of the United States Military Academy, at West Point. Upon this new system the Institute has been in successful operation for twelve years. The cadets admitted consist of two classes, *State* and *Pay* cadets. The Institute supplies to the State cadet his board, tuition, fuel, lights, books, mattrass, medical attendance and stationery; and in consideration thereof, he is required to teach two years after graduation. The Pay cadet is at his own expense, which averages \$300 per year, for every charge, *including clothing*. The State cadets are selected from those who are unable to bear their own expenses. The Institution has always had as many pupils as its buildings would accommodate, and numbers *thirty-two* State and *one hundred* Pay cadets. Applications are made, by letter, to the Superintendent prior to the first of July, each year, and appointments are made for both classes of cadets,

by the Board of Visitors, respect being had to their due apportionment among the several districts of the State.

The Literary Fund of the State contributes \$1,500 per year to the Institute for the education of teachers, and the State has received tuition fees from the pay cadets to the amount of \$25,000 since its organization, which sum is applied to the increase of the number of State cadets, and to the enlargement of the accommodations of the Institute, and to the support of a part of the corps of Professors.

INSPECTOR—(EX-OFFICIO.)

His Excellency Joseph Johnston, Governor of Virginia.

BOARD OF VISITORS.

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ACADEMIC STAFF.

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CADET S. CRUTCHFIELD, (First Class) Acting Assistant Professor of Mathematics.

MAJOR J. T. L. PRESTON, A. M., Professor of Languages and English Literature.

LIEUT. G. H. SMITH, Assistant Professor of Languages, and Assistant Instructor in Infantry Tactics.

CADET L. T. W. PATTON, (First Class,) Acting Assistant Professor of Languages.

MAJOR T. H. WILLIAMSON, Professor of Engineering and Instructor of Drawing.

MAJOR WILLIAM GILHAM, A. M., Professor of Chemistry, and Instructor of Infantry Tactics and Commandant of Cadets.

MAJOR THOMAS J. JACKSON, Professor of Natural and Experimental Philosophy and Instructor of Artillery.

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H. M. ESTILL, M. D., Surgeon.

R. E. COLSTON, Treasurer.

LIEUT. G. H. SMITH, Adjutant.

R. H. CATLETT, Quarter Master.

J. T. GIBBS, Commissary and Steward.

FIRST CLASS, (GRADUATES)—1855.

GENERAL MERIT.	NAMES.	COUNTIES.													REMARKS.
			Mathematics.	French.	Latin.	Drawing.	Chemistry.	Nat'l Philosophy.	Engineering.	Geology, &c.	Rhetoric.	Artillery Tactics.	Infantry Tactics.	Moral Philosophy.	
*1	S. Crutchfield,	Spotsylvania,	1	12	1	17	1	1	1	1	1	1	2	Act. As. Prof.	
*2	W. T. Patton,	Richm'd City,	3	1	2	10	2	2	5	2	2	2	1	" " "	
3	E. V. Bargamin,	do do	6	2	14	12	5	4	3	5	4	3	4	1st Lieut.	
4	L. B. Williams,	Orange,	2	10	4	11	3	5	4	3	5	7	3	1st Captain.	
5	G. Buck,	Morgan,	4	21	16	9	4	3	6	4	3	4	6		
6	J. P. Wilson,	Cumberland,	14	18	11	3	10	7	2	8	7	5	8	2d Lieut.	
7	W. T. Hardy,	Norfolk City,	7	23	6	1	14	6	7	12	8	10	7	Qr. Master.	
8	E. C. Shepherd,	Jefferson,	10	3	3	4	7	11	11	11	9	10	9	1st Lieut.	
9	R. C. Allen,	Bedford,	12	22	10	10	9	10	12	6	6	11	5	2d do	
10	E. J. Magruder,	Orange,	11	6	5	5	8	13	15	7	10	13	7	2d Captain.	
11	B. H. Todd,	Nottoway,	8	11	7	8	6	8	13	9	15	15	11		
12	W. Dupuy,	Dinwiddie,	13	7	13	6	17	15	9	14	13	9	13		
13	J. H. Waddell,	Augusta,	16	13	15	2	11	14	8	10	12	6	12	Adjutant.	
14	W. E. Fife,	Kanawha,	15	25	17	14	15	9	10	13	14	12	14		
15	H. W. Cox,	Chesterfield,	5	17	12	16	13	12	14	15	11	14	15		
†	E. J. Harvie,	Amelia.													

NOTE.

Names marked * are officially reported to the Executive conformably to a regulation which requires the names of the most distinguished Cadets, not exceeding two in each class, to be reported for this purpose at each annual examination.

† Cadet E. J. Harvie recently appointed a Lieutenant in the U. S. Army, having completed the studies of the course, has been graduated with his class without class standing.

SECOND CLASS—1855.

GENERAL MERIT.	NAMES.	COUNTIES.	Mathematics.	Nat'l Philosophy.	Chemistry.	Latin.	Drawing.	Comp'n & Decl'n.	Demerit for the yr.	REMARKS.
*1	F. W. Smith,	Norfolk City,	1	1	1	1	10	8	88	3d Serg't,
*2	P. B. Stanard,	Richmond City,	4	5	5	2	13	1	77	
3	J. H. Carpenter,	Alleghany,	3	3	4	24	14	22	70	
4	W. B. Selden,	Norfolk City,	2	7	10	3	4	21	156	
5	G. P. Rumbough,	Campbell,	12	12	2	12	2	6	26	Color Serg't
6	G. M. Edgar,	Monroe,	7	2	3	25	26	2	120	4th Serg't.
7	F. M. Suddoth,	Fauquier,	5	4	7	28	16	18	81	
8	J. L. Cross,	Warren,	9	6	14	10	8	12	69	2d Serg't.
9	E. L. Smith,	Norfolk,	6	11	9	26	3	9	198	1st do.
10	T. B. Robinson,	King William,	10	15	12	4	12	14	92	
11	W. Y. C. White,	Washington,	15	13	20	16	7	7	78	1st Serg't.
12	E. Fowlkes,	Montgomery,	19	17	6	9	29	16	100	
13	C. M. Barton,	Frederick,	20	19	8	8	11	24	110	
14	W. B. Clagett,	Loudoun,	21	10	15	20	19	26	130	Serg't Maj.
15	J. J. McAllister,	Isle of Wight,	13	16	23	19	33	20	109	
16	W. J. Sergeant,	Louisa,	18	23	22	7	27	10	137	
17	J. F. Alexander,	Spotsylvania,	22	20	19	31	9	13	73	Q. M. S'g't.
18	W. S. Guy,	Nottoway,	8	18	22	21	22	33	196	
19	R. M. McKinney,	Campbell,	25	25	11	22	25	15	86	2d Serg't.
20	F. M. Boykin,	Isle of Wight,	33	9	27	18	18	32	90	4th Serg't.
21	J. B. Cocke,	Powhatan,	14	27	32	11	17	23	121	
22	J. L. Meem,	Campbell,	26	14	25	15	1	19	61	
23	J. A. Galt,	Fluvanna,	17	24	24	5	34	34	170	
24	M. N. Moorman,	Campbell,	27	28	21	30	23	3	94	1st O. S't.
25	R. H. Hooe,	Fauquier,	24	22	16	33	29	28	150	
26	W. H. Hood,	Southampton,	29	26	31	27	21	31	145	5th Serg't.
	C. S. Hurt,	Dinwiddie,	23	8	26	6	32	4	1ef	
	E. L. Fant,	Fauquier,	30	21	17	32	6	30	1ef	
	D. P. Penn,	Richmond,	11	def	13	13	5	5	def	
	J. W. Haden,	Botetourt,	16	29	33	14	35	35	def	
	J. G. Gettings,	Harrison,	28	def	28	1f	30	27	98	
	F. W. Hannum,	Washington,	34	def	35	1f	15	29	194	
	T. H. Halcomb,	Mecklenburg,	35	1ef	34	23	28	25	138	
	T. H. Owen,	Halifax,	32	1ef	30	29	20	17	170	3d Serg't.
	W. H. Easley,	Halifax,	31	1ef	29	17	31	11	174	3d do.

THIRD CLASS—1855.

GENERAL MERIT.	NAMES.	COUNTIES.	Mathematics.		Drawing.	Composition and Declamation.		Demerit for the yr.	REMARKS.
			Latin.						
*1	W. H. Taylor,	Norfolk City,	1	2	2	10	21		
*2	C. W. Hardy,	Do do	2	7	1	13	153		
3	J. McCausland,	Mason,	4	11	5	17	75		3rd Corporal.
4	J. Ker,	Northampton,	8	15	10	11	124		2d do.
5	J. J. Smith,	Alexandria,	11	9	16	6	113		1st do.
6	A. M. Fauntleroy,	Frederick,	7	25	17	1	134		
7	R. M. Mayo,	Westmoreland,	5	10	30	14	136		
8	P. P. Slaughter,	Madison,	10	4	20	23	74		1st Corporal.
9	H. Ker,	Northampton,	12	16	11	8	122		2d do
10	J. W. Bosworth,	Randolph,	13	24	7	4	134		
11	M. J. Wheatley,	Fauquier,	3	28	15	27	137		
12	R. B. Taylor,	Norfolk City,	9	6	21	30	88		
13	A. Fulkerson,	Washington,	6	26	12	24	140		
14	J. Read,	Roanoke,	22	1	18	3	119		
15	S. G. White,	Dinwiddie,	18	20	6	16	122		4th Corporal.
16	R. McCausland,	Mason,	16	22	8	28	91		
17	Alex. Rives,	Albemarle,	21	5	14	2	197		
18	E. McConnell,	Richmond,	14	27	3	22	169		
19	W. D. Coleman,	Pittsylvania,	17	15	9	26	154		
20	J. H. Cameron,	Rockbridge,	15	21	27	15	92		
21	J. A. Hambrick,	Franklin,	19	19	22	5	170		
22	J. Q. Richardson,	Norfolk,	23	29	4	7	186		4th Corporal.
23	B. F. Stewart,	Westmoreland,	20	8	24	25	157		
24	J. C. Hiden,	Orange,	25	3	29	12	194		
25	J. M. Steptoe,	Bedford,	24	14	26	18	133		
26	J. W. Keeble,	Mathews,	26	23	28	29	175		
	P. H. Worsham,	Dinwiddie,					116		Sick not ex-
	P. Breckenridge,	Dotetourt,	def	31	25	19	172		amined.
	A. S. Cousins,	Dinwiddie,	def	30	19	20	170		3rd Corporal.
	P. McEnery,	Do.	def	17	23	21	154		
	J. H. Sharp,	Norfolk City.	def	13	13	9	def		

FOURTH CLASS—1855.

General Merit.	NAMES.	COUNTIES.	Mathematics.	French.	English.	Geography.	Composition.	Declamation.	Demerit for the year.	Remarks.
*1	M. B. Hardin,	Alexandria co.	1	1	1	1	7	6	33	
*2	L. W. Reid,	Alexandria city,	2	4	2	15	1	12	0	
3	J. C. Pegram,	U. S. Navy,	4	3	3	5	9	13	12	
4	L. L. Marks,	Petersburg,	11	5	4	6	2	3	82	
5	J. M. Kinchloe,	Fauquier,	5	9	7	7	29	5	123	
6	J. T. W. Hairston,	Henry,	7	16	13	3	5	14	83	
7	J. Breckenridge,	Botetourt,	3	2	16	17	18	24	131	
8	John Neff,	Shenandoah,	10	15	5	2	10	9	87	
9	N. C. Wilson,	Rockbridge,	8	7	19	4	25	7	163	
10	J. B. Terrill,	Bath,	12	10	15	11	11	19	101	
11	E. C. Edmonds,	Alexandria,	9	13	23	13	22	10	138	
12	T. S. Taylor,	Franklin,	6	23	27	21	20	8	139	
13	G. C. Orgain,	Charles City,	17	6	10	27	31	4	38	
14	J. S. Goode,	Mecklenburg,	16	19	12	12	17	17	99	
15	T. A. Hatcher,	Do.	20	8	14	9	6	21	141	
16	G. E. Tayloe,	Roanoke,	14	22	17	23	12	29	127	
17	W. Cutshaw,	Jefferson.	13	18	20	25	26	31	101	
18	T. M. Boyd,	Nelson,	19	17	9	26	8	1	200	
19	R. O. Grayson,	Loudoun,	22	11	6	8	13	30	196	
20	D. W. Flowerrie,	Fauquier,	21	14	8	29	16	20	86	
21	J. D. Ridley,	Henrico,	18	21	25	16	4	28	147	
22	H. L. Norfleet,	Nansemond,	15	24	25	20	27	11	187	
23	C. L. Mosby,	Lynchburg,	23	25	24	14	24	25	187	
	R. H. Sweeney,	Wheeling,	def	28	21	28	21	16	156	
	R. T. Riddick,	Suffolk,	def	26	26	24	19	18	167	
	W. Watson,	Loudoun,	def	12	11	22	3	2	105	
	W. M. Palmer,	Halifax,	def	20	18	18	14	22	101	
	W. M. Noble,	Amelia,	def	27	28	31	32	26	143	
	N. M. Read,	Roanoke,	def	30	29	30	15	15	def	
	G. Bean,	Hardy,	def	32	32	10	23	32	132	
	A. Rowe,	Gloucester,	def	31	31	19	28	27	111	
	H. Conrad,	Frederick,	def	29	30	32	30	23	def	

ROLL OF CADETS

ARRANGED ACCORDING TO MERIT IN CONDUCT,

FOR THE YEAR ENDING JULY 1st, 1855.

No.	NAMES.	Class.	Demerit.	No.	NAMES.	Class.	Demerit.
1	L. W. Reid,	4	0	39	J. B. Terrill,	4	101
2	W. T. Hardy,	1	0	40	W. M. Palmer,	4	101
3	J. C. Pegram,	4	12	41	W. Cutshaw,	4	101
4	W. H. Taylor,	3	21	42	W. J. Dupuy,	1	102
5	G. P. C. Rumbough,	2	26	43	W. Watson,	4	105
6	E. V. Bargamin,	1	30	44	J. J. McAllister,	2	109
7	M. B. Hardin,	4	33	45	C. M. Barton,	2	110
8	G. C. Orgain,	4	38	46	A. Rowe,	4	111
9	W. E. Fife,	1	42	47	J. J. Smith,	3	113
10	J. P. Wilson,	1	49	48	P. H. Worsham,	3	116
11	G. Buck,	1	59	49	E. J. Magruder,	1	118
12	J. L. Mum,	2	61	50	J. Read,	3	119
13	J. L. Cross,	2	69	51	G. M. Edgar,	2	120
14	J. H. Carpenter,	2	70	52	J. B. Cocke,	2	121
15	J. F. Alexander,	2	73	53	H. Ker,	3	122
16	P. P. Slaughter,	3	74	54	S. G. White,	3	122
17	J. McCausland,	3	75	55	J. M. Kinchloe,	4	123
18	P. B. Stanard,	2	77	56	J. Ker,	3	124
19	W. Y. C. White,	2	78	57	G. E. Tayloe,	4	127
20	J. H. Waddell,	1	78	58	W. B. Clagett,	2	130
21	L. W. T. Patton,	1	79	59	J. Breckenridge,	4	131
22	F. M. Suddoth,	2	81	60	G. Bean,	4	132
23	L. L. Marks,	4	82	61	J. M. Steptoe,	3	133
24	J. T. W. Hairston,	4	83	62	A. M. Fauntleroy,	3	134
25	D. W. Flowerrie,	4	86	63	J. W. B. Bosworth,	3	134
26	R. M. McKinney,	2	86	64	R. M. Mayo,	3	136
27	J. Neff,	4	87	65	W. J. Seargeant,	2	137
28	F. W. Smith,	2	88	66	M. T. Wheatley,	3	137
29	R. B. Taylor,	3	88	67	T. H. Halcomb,	2	138
30	F. M. Boykin,	2	90	68	E. C. Edmonds,	4	138
31	R. K. McCausland,	3	91	69	T. S. Taylor,	4	139
32	E. C. Shepherd,	1	91	70	B. H. Todd,	1	139
33	T. B. Robinson,	2	92	71	A. Fulkerson,	3	140
34	J. H. Cameron,	3	92	72	T. A. Hatcher,	4	141
35	M. N. Moorman,	2	94	73	S. Crutchfield,	1	142
36	J. G. Gittings,	2	98	74	W. M. Noble,	4	143
37	J. S. Goode,	4	99	75	W. H. Hood,	2	145
38	E. Fowlkes,	2	100	76	J. W. Ridley,	4	147

No.	NAMES.	Class.	Demerit.	No.	NAMES.	Class.	Demerit.
77	R. H. Hooe,	2	150	96	H. L. Norfleet,	4	183
78	C. W. Hardy,	3	153	97	J. Q. Richardson,	3	186
79	W. D. Coleman,	3	154	98	C. S. Mosby,	4	187
80	P. McEnery,	3	154	99	R. C. Allen,	1	192
81	W. B. Selden,	2	156	100	J. C. Hiden,	3	194
82	R. H. Sweeney,	4	156	101	T. H. Hannum,	2	194
83	B. F. Stewart,	3	157	102	W. L. Guy,	2	196
84	N. C. Wilson,	4	163	103	R. O. Grayson,	4	196
85	R. T. Riddick,	4	167	104	A. Rives,	3	197
86	E. McConnell,	3	169	105	E. L. Smith,	2	198
87	J. A. Galt,	2	170	106	T. M. Boyd,	4	200
88	A. S. Cousins,	3	170	†	E. L. Fant,	2	305
89	T. H. Owen.	2	170	††	C. S. Hurt,	2	177
90	J. A. Hambrick,	3	170	†	D. B. Penn,	2	250
91	L. B. Williams,	1	171	†	J. W. Haden,	2	381
92	P. G. Breckenridge,	3	172	†	J. H. Sharp.	3	239
93	H. W. Cox,	1	172	†	N. M. Read,	4	216
94	W. H. Easley,	2	174	†	H. Conrad,	4	376
95	J. W. Keeble,	3	175				

† Deficient in conduct.

†† Being upon probation for the previous year, the limit for Cadet H.'s demerit was 175.

SYNOPSIS

OF THE

COURSE OF STUDIES AT VIRGINIA MILITARY INSTITUTE.

	STUDIES.	TEXT BOOKS.
First Year. FOURTH CLASS.	Arithmetic. Algebra and Geometry. English Grammar. Geography. French.	Smith & Duke's American Statistical Arithmetic. Smith's Algebra, Legendre. Murray's Grammar. Mitchell. Levizac's Grammar, vie de Washington.
Second Year. THIRD CLASS.	Trigonometry. Analytical Geometry. Descriptive Geometry. Shades, Shadows and Perspective. Surveying. Differential and Integral Calculus. French. Drawing, Landscape. Latin.	Legendre. Smith's Biot. Davies. Lectures. Davies. Church. Gil Blas. Picot, No. 5.
Third Year. SECOND CLASS.	Natural Philosophy. Chemistry. Latin. Drawing, Topography and Linear.	Bartlett & Gummere. Roger's Turner. Anthon's Cæsar, Virgil, Cicero, Horace and Terence.
Fourth Year. FIRST CLASS.	Geology and Mineralogy. Military and Civil Engineering. Tactics, Infantry and Artillery. English Literature. Rhetoric and Logic. Geography. Agricultural Chemistry. Moral Philosophy and Constitutional Law.	Hitchcock and Norton. Mahan and Lectures. Scott. Chambers and Lectures. Blair and Whateley. Mitchell. W. Norton. Paley and U. S. Constitution.

EXPLANATION OF CONDUCT ROLL.

All offences against Orders or Regulations are recorded.

These offences are divided into seven grades; each of which comprises offences of nearly the same degree of criminality. The degree of criminality of offences of each grade is expressed by a number, as follows :

Offences of the 1st grade by 10

Do	“	2d	“	8
Do	“	3d	“	5
Do	“	4th	“	4
Do	“	5th	“	3
Do	“	6th	“	2
Do	“	7th	“	1

For each year (after the first year) that a Cadet has been a member of the Institute, his offences are made to count more, by adding to the number expressing the degree of criminality, of each offence, one-sixth for the second class—and one-third for the third class—and one-half for the first class.

At the end of the Academic year, these numbers are added up, and the sum thus obtained is that found in the column of “*demerit*.”

When a Cadet has more than 100 demerit by the 1st of January, or 200 in one year, he is dismissed *ipso facto*.

NEW APPOINTMENTS—1855.

No	NAMES.	COUNTIES.
1	Geo. H. Toole,	Albemarle,
2	C. C. Burks,	Rockbridge,
3	T. V. Williams,	Tazewell,
4	R. J. Overton,	Prince Edward,
5	Wm. Keiter,	Hampshire,
6	R. S. Blair,	Ritchie,
7	J. B. Lockhart,	Brooke,
8	J. Ham,	Elizabeth City,
9	G. B. Cooke,	Norfolk County,
10	John W. Lyle,	Richmond City,
11	J. W. Hill,	Rappahannock,
12	J. P. Minatree,	Petersburg,
13	T. S. Michaels,	Richmond City,
14	W. J. Cunningham,	Hardy,
15	J. H. Chenoworth,	Randolph,
16	T. B. Booth,	Dinwiddie,
17	J. R. Pemberton,	Louisa,
18	J. Armistead,	Elizabeth City,
19	J. M. McDonald,	Hampshire,
20	C. McDonald,	Do.
21	J. Poindexter,	Pittsylvania,
22	M. C. Selden,	Powhatan,
23	A. B. Cochran,	Augusta,
24	A. H. Haden,	Botetourt,
25	S. Lewis,	Mason,
26	D. Hardaway,	Nottoway,
27	W. F. Wiley,	Amelia,
28	W. H. Otey,	Lynchburg,
29	S. Wilson,	Surry,
30	J. J. Shoemaker,	Lynchburg,
31	Peter Crain,	Loudoun,
32	R. J. W. Love,	Westmoreland,
33	W. Sydnor,	Petersburg,

NEW APPOINTMENTS—1855—(*Continued.*)

No	NAMES.	COUNTIES.
34	R. W. Carter,	Loudoun,
35	R. Grigg,	Petersburg,
36	R. C. Everett,	Nansemond,
37	W. P. Adams,	Albemarle,
38	H. C. Cox,	Petersburg,
39	W. J. Jones,	Essex,
40	W. L. Wingfield,	Bedford,
41	E. H. Moorman,	Lynchburg,
42	M. Gouldin,	Richmond City,
43	B. Meade,	Amelia,
44	D. Hobson,	Lynchburg,
45	E. L. Hutter,	Do.
46	T. S. Pitts,	Richmond County.
47	J. Cammack,	Monroe,
48	R. A. Ford,	Chesterfield,
49	James R. Hall,	Mason,
50	John F. Tyler,	Lee,
51	C. H. Clark,	Clarke,
52	F. C. Boston,	Fluvanna,
53	— Bustable,	Upshur,
54	J. S. Williams,	Nottoway,
55	James F. Piggott,	James City,
56	John W. Kerr,	Petersburg,
57	Wm. H. Fowle,	Alexandria,
58	Thomas P. Pollard,	Petersburg,
59	W. O. Taylor,	Richmond City.

GRADUATES

OF THE

VIRGINIA MILITARY INSTITUTE,

SINCE ITS ORGANIZATION.

NO.	NAMES.	COUNTIES.	Date of Graduation.	REMARKS.
*1	W. D. Fair,	Amherst,	July 4, 1842.	Lawyer. Teacher.
*2	W. H. Henderson,	Loudoun,	ditto	Lawyer. [Academy.
3	J. B. Strange,	Fluvanna,	ditto	Prof. Math. Norfolk
4	T. J. B. Cramer,	Frederick.	ditto	Teacher.
5	E. Pendleton,	Botetourt.	ditto	Lawyer.
6	J. H. Lawrence,	Caroline,	ditto	Dentist.
7	W. M. Elliott,	Buckingham,	ditto	Ed. Richmond Whig.
8	J. H. Jameson,	Culpeper,	ditto	Lawyer.
†9	C. P. Deyerle,	Montgomery,	ditto	Ass't Surg. U. S. A.
10	J. T. Smith,	Norfolk,	ditto	[ty Tennessee.
11	W. Forbes,	Richmond,	ditto	Prof. Math. Universi-
12	V. C. Saunders,	Loudoun,	ditto	Teacher.
13	J. W. Bell,	Augusta,	ditto	Farmer.
14	O. M. Knight,	Nottoway,	ditto	Physician.
15	James Marshall,	Warren,	ditto	Farmer.
16	L. A. Garnett,	Essex,	ditto	Lawyer.
17	N. H. Campbell,	Bedford,	July 4, 1843,	Lawyer.
*18	J. B. Dorman,	Rockbridge,	ditto	Lawyer.
*19	J. W. Wildman,	Loudoun,	ditto	Merchant.
20	H. T. Barton,	Spotsylvania.	ditto	Physician.
21	W. J. Warden,	Augusta,	ditto	Clergyman.
22	W. C. Jeffress,	Nottoway,	ditto	Lawy'r. [Macon Col.
23	J. C. Wills,	Isle of Wight,	ditto	Prof. Mat. Randolph
24	V. H. Rodes,	Campbell,	ditto	Merchant.
25	J. L. Bryan,	Petersburg,	ditto	Physician.
26	E. Winston,	Amherst,	ditto	Civil Engineer.
†27	W. S. Beale,	Shenandoah,	ditto	Merchant.
28	J. T. Washington,	Westmoreland,	ditto	Deputy Sheriff.
29	G. W. Williams,	Roanoke,	ditto	Teacher. [Academy.
*30	J. H. Pitts,	Essex,	July 4, 1844.	Principal of Rumford
*31	M. McKennie,	Albemarle,	ditto	Physician.
32	A. C. Cummings,	Washington,	ditto	Lawyer.
33	J. A. Campbell,	Washington,	ditto	Lawyer.
34	G. A. Porterfield,	Berkeley,	ditto	Editor.
35	J. S. Burks,	Bedford,	ditto	Farmer and mem. Va.
36	E. Taylor,	Caroline,	ditto	Farmer. [Leg.
37	W. H. Richardson,	Henrico,	ditto	Adj't Gen'l's Office.
38	J. B. Clemens,	Ohio,	ditto	Physician.
*39	H. T. Lee,	Frederick,	July 4, 1845,	Clergyman. Teacher.
*40	R. T. W. Duke,	Albemarle,	ditto	Lawyer. Teacher.
41	J. B. Sherrard,	Hampshire,	ditto	Merchant.
42	R. H. Simpson,	Warren,	ditto	Teacher.

NO.	NAMES.	COUNTIES.	Date of Graduation.	REMARKS.
43	W. H. R. Wheelright,	Westmoreland,	July 4, 1845.	Clergyman—Teacher.
†44	H. B. Hill,	Buckingham,	ditto	Teacher.
45	D. A. Langhorne,	Campbell,	ditto	Physician.
46	C. Boggess,	Harrison,	ditto	Lawyer.
†47	W. H. Baker,	Frederick,	ditto	Lawyer.
48	R. M. Wiley,	Botetourt,	ditto	Farmer and mem. Va.
49	V. T. Churchman,	Augusta,	ditto	Physician. [Leg.
50	J. R. Cabell,	Pittsylvania,	ditto	Physician.
51	A. H. Powell,	Brunswick,	ditto	Clergyman.
52	H. W. Williamson,	Norfolk,	ditto	Civil Engineer.
53	J. B. Moorman,	Pendleton,	ditto	Teacher.
†54	J. P. Mason,	Rappahannock,	ditto	Teacher.
55	W. H. Stith,	Richmond,	ditto	Civil Eng'r—Teacher.
56	E. M. Anthony,	Botetourt,	ditto	Lawyer.
57	R. L. Walker,	Albemarle,	ditto	Civ. Eng. & Farmer.
†58	T. B. Robertson,	Richmond,	July 4, 1846.	Lawyer & Prof. Math.
*59	J. Q. Marr,	Fauquier,	ditto	Commissioner.
60	W. M. Nelson,	Clarke,	ditto	Clergyman—Teacher.
61	R. E. Colston,	Berkeley,	ditto	Professor of French
62	R. H. Keeling,	Richmond,	ditto	[V. M. I.]
63	G. W. Bruce,	Frederick,	ditto	Physician.
64	J. C. Porter,	Orange,	ditto	Teacher.
65	J. M. Patton, Jr.,	Richmond,	ditto	Lawyer.
66	Edmund Goode,	Bedford,	ditto	Teacher.
67	Wm. C. Leyburn,	Rockbridge,	ditto	Farmer and manuf'r.
68	P. A. Fitzhugh,	Middlesex,	ditto	Physician—Teacher.
69	R. Tyler,	Prince William,	ditto	Physician.
70	R. Mills,	Richmond,	ditto	Farmer.
71	W. J. Green,	Stafford,	ditto	Merchant.
*72	R. H. Sinton,	Henrico,	July 4, 1847.	Merchant.
*73	G. C. Wharton,	Culpeper,	ditto	Civil Engineer.
74	J. Y. Page,	Clarke,	ditto	Lawyer.
75	D. L. Powell,	Loudoun,	ditto	Prof. So. Female Inst.
76	J. C. Moncure,	Stafford,	ditto	Lawyer.
77	J. P. Welsh,	Madison,	ditto	Teacher—Lawyer.
78	H. B. Smyth,	Wythe,	ditto	Teacher.
79	Wm. Mahone,	Southampton,	ditto	Ct. Eng. Norf. & Jet.
80	Samuel McGrew,	Preston,	ditto	Teacher. [R. R.
81	B. L. Chrisman,	Rockingham,	ditto	Physician.
†82	J. M. Claytor,	Campbell,	ditto	Civil Engineer.
83	W. Downs,	Rockbridge,	ditto	Clergyman—Teacher.
*84	S. T. Pendleton,	Campbell,	July 4, 1848.	Civil Eng. & Teach'r.
*85	J. C. Councill,	Norfolk,	ditto	Teacher.
86	J. M. Cary,	Greenbrier,	ditto	Teacher.
87	C. V. Winfree,	Campbell,	ditto	Civil Engineer.
88	C. A. Derby,	Dinwiddie,	ditto	Prof. Math. Geo. Mil.
89	A. L. Rives,	Albemarle,	ditto	Civil Eng. [Acad.
90	J. R. Jones,	Rockingham,	ditto	Teacher.
91	J. T. Ellis,	Amherst,	ditto	Merchant.
92	J. P. Beale,	Westmoreland,	ditto	Clergyman.
93	R. E. Rodes,	Campbell,	ditto	Civil Engineer.
94	J. S. Gamble,	Hardy,	ditto	Asst. Prof. Math. V.
95	C. Carter,	Charles City,	ditto	Manufacturer. [M. I.
†96	C. W. Cary,	Greenbrier,	ditto	Physician.

NO.	NAMES.	COUNTIES.	Date of Graduation.	REMARKS.
97	W. H. Pryor,	Dinwiddie,	July 4, 1848.	Civil Eng'r—Merchant.
98	E. G. Wall,	Frederick,	ditto	Civil Engineer.
99	N. Berkeley,	Loudoun,	ditto	Civil Engineer—Farmer.
100	G. W. Robertson,	Warwick,	ditto	Civil Engineer.
101	J. Jones,	Jefferson,	ditto	Teacher—Clergyman.
102	N. Tyler,	Pr. William,	ditto	Lawyer.
103	J. G. Broadnax,	Dinwiddie,	ditto	Physician.
104	F. B. Jones,	Frederick,	ditto	Farmer.
105	B. G. Baldwin,	Augusta,	ditto	U. S. Mil'y storekeeper.
106	W. W. Finney,	Powhatan,	ditto	
107	R. C. Trigg,	Montgomery,	ditto	
*108	John Lawson,	Richm'd City,	July 4, 1849.	Mexican Boundary.
*109	J. W. Massie,	Augusta,	ditto	Lawyer.
110	S. Garland, Jr.,	Campbell,	ditto	Lawyer.
111	E. T. Fristoe,	Rappahannock,	ditto	Prof. Math. Col. College.
112	J. W. Allen,	Bedford,	ditto	Teacher—Farmer.
113	Robert Gatewood,	Norfolk City,	ditto	Adj. Prof. Math. W. &
114	W. J. Morrissett,	Chesterfield,	ditto	Teacher. [M. Col.
115	T. H. Carter,	Clarke,	ditto	Physician.
116	Richard Pollard, Jr.,	Albemarle.	ditto	Merchant.
117	Richard Logan Jr.,	Halifax,	ditto	Civil Engineer.
118	F. Lackland,	Jefferson,	ditto	Civil Engineer.
119	K. Otey,	Campbell,	ditto	Merchant.
120	J. H. Estes,	Nelson,	ditto	Physician.
121	W. Steenbergen,	Mason,	ditto	Farmer.
122	P. B. Adams,	Harrison,	ditto	Teacher.
123	E. T. Bridges,	Richm'd City,	ditto	
124	F. W. Cox.	Essex,	ditto	Teacher—Lawyer.
125	W. Byrd,	Frederick,	ditto	Lawyer.
126	J. F. Jordon,	Alleghany,	ditto	Teacher—Civil Engin'r.
127	B. Ficklin,	Albemarle,	ditto	Teacher.
128	G. P. Terrill,	Bath,	ditto	Teacher—Physician.
129	Amb. Ranson,	Jefferson,	ditto	Farmer.
130	J. B. Norville,	Pr. William,	ditto	Teacher—Civil Eng'r.
†131	L. P. Thompson,	Augusta,	ditto	Lawyer.
*132	W. W. Gordon,	Essex,	July 4, 1850.	U. S. Coast Survey.
*133	P. B. Smith,	Northampton,	ditto	Lawyer.
134	W. D. Stuart,	Augusta,	ditto	Teacher.
135	Charles Denby,	Richm'd City,	ditto	Teacher.
136	C. D. Rice,	Jefferson,	ditto	Teacher.
137	T. O. Benton,	Nansemond,	ditto	Teacher.
138	J. Gallatin Paxton,	Rockbridge,	ditto	Civil Eng'r—Ed. Lynch.
139	C. H. Harrison,	Cumberland,	ditto	Merchant. [Repub.
140	D. Truehart,	Richm'd City,	ditto	U. S. Coast Survey.
141	W. B. Littlepage,	King William,	ditto	Teacher.
142	J. M. Brockenbrough,	Richmond,	ditto	Teacher.
143	W. H. Urquhart,	Southampton,	ditto	
144	G. Jordon,	Page,	ditto	Civil Engineer.
145	Charles Smith,	Northampton,	ditto	Physician.
146	W. R. Terry,	Bedford,	ditto	Merchant.
147	A. C. Jones,	Marshall,	ditto	
148	William Booton,	Madison,	ditto	Civil Engineer.
*149	J. A. Marshall,	Fauquier,	July 4, 1851.	Teacher—Lawyer.
*150	W. Y. C. Humes,	Washington,	ditto	Teacher—Lawyer.

NO.	NAMES.	COUNTIES.	Date of Graduation.	REMARKS.
151	F. S. Bass,	Brunswick,	July 4, 1851.	Teacher.
152	P. C. Gibbs,	Morgan,	ditto	Teacher. Merchant.
153	W. H. Burroughs,	Princess Ann,	ditto	Teacher.
154	J. T. B. Winfree.	Campbell,	ditto	Merchant.
155	J. C. Page,	Cumberland,	ditto	Farmer.
156	E. P. Taylor,	King George,	ditto	Farmer.
157	R. S. Burks,	Botetourt,	ditto	Teacher.
158	T. A. Harris,	Bedford,	ditto	Teacher. Physician.
159	C. Cook,	Hanover,	ditto	
160	R. O. Whitehead,	Nansemond,	ditto	Teacher.
161	H. Carrington,	Charlotte,	ditto	
162	G. G. Garrison,	Princess Ann,	ditto	Civil Engineer.
163	A. J. Vaughan.	Dinwiddie,	ditto	Civil Engineer.
164	B. F. Elliott,	Madison,	ditto	
165	W. A. Harris,	Rockbridge,	ditto	Teacher. Physician.
166	H. T. Parrish,	Cumberland,	ditto	
167	J. H. Johnston,	Norfolk City,	ditto	Farmer.
168	H. Caperton,	Monroe,	ditto	Physician. [gineer.
169	Thomas Upshaw,	King and Queen,	ditto	Teacher. Civil En-
170	R. F. W. Morriss,	Amherst,	ditto	Merchant.
171	H. Gantt,	Albemarle,	ditto	[gineer.
172	A. B. Jordan,	Isle of Wight,	ditto	Teacher. Civil En-
173	W. A. Eliason,	Alexandria,	ditto	Civil Engineer.
174	W. Whitehead,	Nansemond,	ditto	Physician. Surgeon
175	A. F. Gooch,	Richmond City,	ditto	Farmer. [Rus. Army
176	A. D. Callocote,	Isle of Wight,	ditto	Teacher. [at Seb'pol.
177	James Giles,	Pittsylvania,	ditto	Teacher. [Survey.
*178	J. E. Blankenship,	Amelia,	July 4, 1852.	Teacher. U. S. Coast
*179	G. S. Patton,	Richmond City,	ditto	Teacher. Lawyer.
180	Joseph Mayo,	Westmoreland,	ditto	Lawyer.
181	W. M. Gordon,	Fauquier,	ditto	Teacher.
182	W. O. Yager,	Page,	ditto	
183	H. A. Whiting,	Hanover,	ditto	Teacher. Civil Eng.
184	S. B. Gibbons,	Page,	ditto	Teacher.
185	C. T. Mason,	King George,	ditto	Civil Engineer.
186	J. C. Mayo,	Westmoreland,	ditto	Teacher. Physician.
187	T. R. Thornton,	Caroline,	ditto	Teacher.
188	B. F. Hudgins,	Elizabeth City,	ditto	Farmer.
189	John C. Grayson,	Alexandria,	ditto	
190	M. P. Christian,	Campbell,	ditto	Teacher.
191	Thos. T. Munford,	Culpeper,	ditto	Farmer.
192	N. H. Harrison,	Richmond City,	ditto	
193	John G. Meem,	Spotsylvania,	ditto	Merchant.
†194	C. B. Williams, Jr.,	Campbell,	ditto	Teacher.
195	M. B. Manser,	Fayette,	ditto	
196	G. A. Goodman,	Albemarle,	ditto	Teacher.
197	Jas. V. Hall,	Princess Ann,	ditto	Teacher.
198	Wm. M. Waller,	Amherst,	ditto	Farmer.
199	W. J. Preston,	Richmond City,	ditto	Civil Engineer.
200	J. L. Ashby,	Clarke,	ditto	
201	M. F. Tutwiler,	Fluvanna,	ditto	Civil Engineer.
*202	J. T. Murfee,	Southampton,	July 4, 1853.	Teacher. Prof. Math.
*203	W. Silvester,	City of Norfolk,	ditto	Teacher. [Mad. Col.
204	P. S. Lewis,	Mason,	ditto	Farmer.

NO.	NAMES.	COUNTIES.	Date of Graduation.	REMARKS.
205	W. W. Williams,	City of Norfolk,	July 4, 1853.	Divinity.
206	J. J. Phillips,	Nansemond,	ditto	Teacher.
207	Geo. H. Smith,	Fairfax,	ditto	Teacher.
208	T. G. Smith,	City of Norfolk,	ditto	Law.
209	J. L. White,	Washington,	ditto	Physician.
210	J. P. Hammet,	Montgomery,	ditto	Physician.
211	J. D. Bruce,	Frederick,	ditto	
212	J. C. Ward,	Campbell,	ditto	Farmer.
213	Geo. Chamberlayne.	City of Norfolk,	ditto	Broker.
214	Gab. Gray,	Culpeper,	ditto	Teacher.
215	Wm. Kemble,	Monongalia,	ditto	Teacher.
216	J. R. Waddy,	Northampton,	ditto	Teacher.
217	J. W. Cringan,	City of Richmond	ditto	Civil Engineer.
218	Wm. F. Lee.	Alexandria.	ditto	Teacher. U. S. Army
219	J. A. Turner,	King George,	ditto	Civil Engineer.
220	Francis Mallory,	Elizabeth City,	ditto	Civil Engineer.
221	Alex. Morson,	Stafford,	ditto	Civil Engineer.
222	H. B. Armistead,	Fauquier,	ditto	Teacher.
223	N. Hammond,	Berkeley,	ditto	
224	J. M. Lightner.	Pocahontas.	ditto	Farmer.
225	W. E. Arnold,	Franklin,	ditto	Teacher.
226	T. J. Moncure.	Caroline,	ditto	Teacher.
*227	Richard Taylor,	City of Norfolk,	July 4, 1854.	Teacher.
*228	J. H. Lane,	Matthews,	ditto	
229	R. P. Carson,	Washington,	ditto	Teacher.
230	C. E. Lauck,	Frederick,	ditto	Teacher.
231	James W. Humes,	Washington,	ditto	Teacher.
232	Wm. Browne Botts,	Spotsylvania,	ditto	Teacher.
233	Wm. E. Harrison,	London,	ditto	Civil Engineer.
234	J. L. Stephenson,	Fauquier,	ditto	
235	C. E. Lightfoot.	Culpeper,	ditto	Teacher.
236	Geo. B. Horner.	Fauquier,	ditto	Civil Engineer.
237	C. H. Riddick,	Nansemond,	ditto	
238	John A. Marks,	P. George,	ditto	
239	Alex. Bruce,	Halifax,	ditto	Farmer.
†	Thomas Blackburn,	Jefferson,	Jan. 15, 1854.	
*240	S. Crutchfield,	Spotsylvania,	July 4, 1855.	Ass't Prof. V. M. I.
*241	W. T. Patton,	Richmond City,	ditto	
242	E. V. Bargamin,	Richmond City,	ditto	
243	L. B. Williams,	Orange,	ditto	Ass't Prof. V. M. I.
244	G. Buck,	Morgan,	ditto	Teacher.
245	J. P. Wilson,	Cumberland,	ditto	Farmer.
246	W. T. Hardy,	Norfolk City,	ditto	Civil Engineer.
247	E. C. Shepherd,	Jefferson,	ditto	Teacher.
248	R. C. Allen,	Bedford,	ditto	
249	E. J. Magruder,	Orange,	ditto	
250	B. H. Todd,	Nottoway,	ditto	Teacher.
251	W. Dupuy,	Dinwiddie,	ditto	
252	J. H. Waddell,	Angusta,	ditto	Teacher.
253	W. E. Fife,	Kanawha,	ditto	
254	H. W. Cox,	Chesterfield,	ditto	
§	E. J. Harvie,	Amelia,	ditto	Lieut. U. S. Army.

Names marked thus [*] most distinguished of their class—those with [†] signify death.

NOTE.—Graduates are requested to notify the Superintendent of any errors in the above Catalogue.

† Cadet E. J. Harvie having been appointed a Lieutenant in the U. S. Army a short time before his class graduated, but having completed the studies of his class, he was graduated without class standing.

N. B.—A general meeting of the Alumni is specially requested at the Institute, on the 3d of July next. JAMES W. MASSIE, Esq., orator for the occasion.

VIRGINIA MILITARY INSTITUTE.

Lexington, Va., July 4, 1855.

By order of Col. E. H. SMITH,

GEO. H. SMITH.

Adj. V. M. I.



NOTICES OF SMITH'S STATISTICAL ARITHMETIC.

From the Board of Directors of the Literary Fund, Virginia.

The Board of Directors of the Literary Fund having examined Smith and Duke's American Statistical Arithmetic, composed by Francis H. Smith Esq., Superintendent and Professor of Mathematics in the Virginia Military Institute, take pleasure in recommending the work, especially for the purpose for which it is designed, "to prepare beginners for the study of the more advanced parts of the science." The plan of inculcating valuable statistical information in the illustration of arithmetical rules is not only novel and attractive, but useful, and is doubtless calculated to make a strong impression on the minds of youth.

A true extract from the minutes.

(Signed.)

J. BROWN, Jr., *Second Auditor.*

Office of the Literary Fund Board, Va.

From J. H. Brown, A. M., Principal of Zane St. School, Philad.

It was with much pleasure that I examined the American Statistical Arithmetic by Smith and Duke, and an introduction to the same, by Francis H. Smith, A. M., both published by you. They are works of more than ordinary merit. With clear and definite Rules, they convey a large amount of valuable information not usually within the reach of students of Arithmetic. Their general introduction will aid the cause of sound instruction in the Schools and Academies of our country.

Extract of a letter of Prof. Powers, of Virginia University.

I consider it decidedly the best Arithmetic I have seen, not only as regards the valuable statistical information it contains, but also in its arrangement, and the very clear and simple explanation of the rules which it gives.

Notices of Smith's Algebra.

This work is designed to present as complete an Elementary course of Algebra, as the time devoted to the study of Mathematics in the Colleges of our country will allow; while it will be equally within the comprehension of the pupil of the High School or Academy.

In preparing this work, the author has adopted those explanations and demonstrations which an experience of many years in teaching, and a careful comparison of standard authors have shown to be best. Without following the system of any other writer, he has derived important aid from the works of Garnier, Bezout, Reynaud, Bourdon, Lacroix, Francœur, Euler, Hutton, Thompson, Goodwyn, Scott, and the *Encyclopedia Metropolitana*. Many of his examples have been selected from the valuable edition of Hutton's Mathematics, by Professor Rutherford, of the Royal Military Academy, Woolwich.

This work covers the full course of Davies' Bourdon, and contains a new and beautiful demonstration of the Binomial Theorem in the case of an Exponent, by Prof. Pike Powers, late of the University of Virginia.

From Prof. P. Powers, late Professor of University of Virginia.

I have been using your Algebra for nearly twelve months, and can truly say it answers my purpose better than any other I am acquainted with. It presents the leading principles of the science in a concise and simple form, and especially those higher principles which give beginners most trouble, so that I have never had my classes master them before with so little difficulty.

From Prof. W. N. Pendleton.

The work which you have translated, I have, ever since becoming familiar with it, regarded it as a masterpiece in that department of mathematical science—indeed my feelings respecting it have always partaken much of the enthusiastic. It bears the evident stamp of genius, and embodies more of the beauties of ingenuity, simplicity, and generalization, than any other work of that class of subjects with which my mathematical studies have made me acquainted.

From the Virginian, Winchester, Va.

A new Algebra, by Col. Francis H. Smith, the highly efficient and esteemed Superintendent of our Military Institute at Lexington, will require no eulogy of ours, in view of the rapid and entire success of the author's previous work, the Statistical Arithmetic. This work has all the *prestige* a city publisher can give it, and Virginians have thus all they demand before giving their encouragement to home productions. No Virginia school-boy will lose much by being *minus* Bonycastle and *plus* Smith.

Notices of Smith's Biot's Analytical Geometry.

From Prof. John B. Strange, Norfolk Academy.

I have seen your Algebra, and, after a careful examination of it, I do not hesitate to pronounce it an excellent work—the best on the subject that I have seen. I shall, therefore, adopt it immediately in the Academy. I am so much pleased with all your mathematical works which have appeared, that I trust your labors in this department will not cease until you have completed the whole course.

From A. W. Millspaugh, Principal of the Classical School, Farmville.

It gives the definitions and some of the most abstruse parts of the science with greater clearness and perspicuity than any similar work with which I am acquainted—and I also think the copious examples given a great desideratum.

From Prof. Saunders, of William & Mary College.

I have long lamented the defect in logical arrangement of most of the principal treatises on the subject of Analytical Geometry, with regard to one of its most important applications—*Conic Sections*. The student is informed that they are Conic Sections, because they result from the intersection of a plane in different positions with the surface of a cone, but he is put in possession of their properties before any proof is given to him that they are what they are called. The very last step usually is, to show that they are Conic Sections. The treatise of *Biot* comes precisely up to my idea of the proper arrangement in this respect.